

10/570737 PGPUB SEARCH: CAPLUS, REGISTRY, MARPAT

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NEWS 5 FEB 06 Patent sequence location (PSL) data added to USGENE
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NEWS 12 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
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STN patent clusters
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NEWS 15 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display
formats
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applications and grants
NEWS 17 MAR 11 ESBIODBASE reloaded and enhanced
NEWS 18 MAR 20 CAS databases on STN enhanced with new super role
for nanomaterial substances
NEWS 19 MAR 23 CA/Capplus enhanced with more than 250,000 patent
equivalents from China
NEWS 20 MAR 30 IMSPATENTS reloaded and enhanced
NEWS 21 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 22 APR 07 STN is raising the limits on saved answers
NEWS 23 APR 24 CA/Capplus now has more comprehensive patent assignee
information
NEWS 24 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information
NEWS 25 APR 28 CAS patent authority coverage expanded
NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 27 APR 28 Limits doubled for structure searching in CAS

REGISTRY

NEWS 28 MAY 08 STN Express, Version 8.4, now available
NEWS 29 MAY 11 STN on the Web enhanced
NEWS 30 MAY 11 BEILSTEIN substance information now available on
STN Easy

NEWS EXPRESS MAY 08 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:09:49 ON 12 MAY 2009

=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'CAPLUS' ENTERED AT 14:10:07 ON 12 MAY 2009

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FILE COVERS 1907 - 12 May 2009 VOL 150 ISS 20

FILE LAST UPDATED: 10 May 2009 (20090510/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

=> S US2006-570737/AP
L1 1 US2006-570737/AP

=> SEL RN
E1 THROUGH E31 ASSIGNED

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.84	3.06

FILE 'REGISTRY' ENTERED AT 14:10:37 ON 12 MAY 2009
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 10 MAY 2009 HIGHEST RN 1145355-82-3
DICTIONARY FILE UPDATES: 10 MAY 2009 HIGHEST RN 1145355-82-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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1 247227-98-1/BI
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1 393588-66-4/BI
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1 393588-67-5/BI
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1 68295-94-3/BI
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1 74219-29-7/BI
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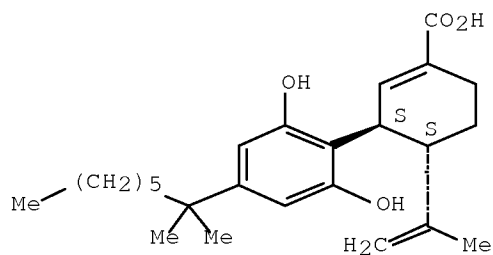
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=> D L2 1-31

L2 ANSWER 1 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN ~~847949-47-7~~ REGISTRY
 ED Entered STN: 05 Apr 2005
 CN 1-Cyclohexene-1-carboxylic acid, 3-[4-(1,1-dimethylheptyl)-2,6-
 dihydroxyphenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C25 H36 O4
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847949-46-6 REGISTRY

ED Entered STN: 05 Apr 2005

CN 1-Cyclohexene-1-carboxylic acid, 3-[2,6-bis(acetyloxy)-4-(1,1-dimethylheptyl)phenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)

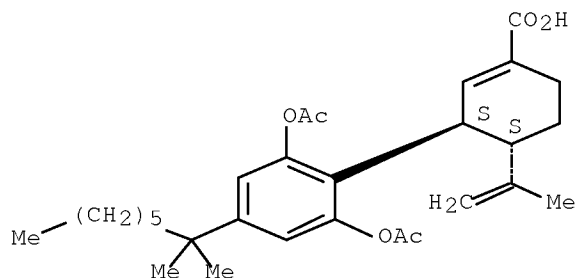
FS STEREOSEARCH

MF C29 H40 O6

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847949-45-5 REGISTRY

ED Entered STN: 05 Apr 2005

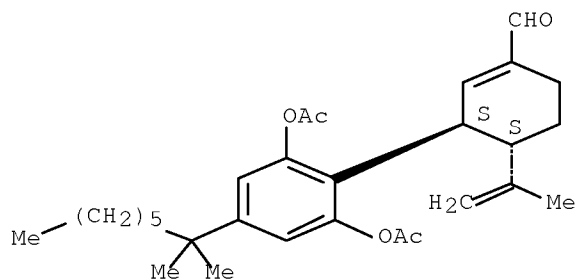
CN 1-Cyclohexene-1-carboxaldehyde, 3-[2,6-bis(acetyloxy)-4-(1,1-dimethylheptyl)phenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)

FS STEREOSEARCH

MF C29 H40 O5

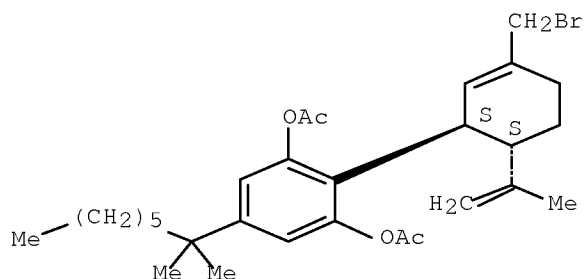
SR CA

Absolute stereochemistry. Rotation (+).



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Absolute stereochemistry. Rotation (+).



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-43-3 REGISTRY
ED Entered STN: 05 Apr 2005
CN 1,3-Benzenediol, 2-[(1S,6S)-2-(acetyloxy)-3-methylene-6-(1-

methylethenyl)cyclohexyl]-5-(1,1-dimethylheptyl)-, 1,3-diacetate (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Benzenediol, 2-[(1S,6S)-2-(acetyloxy)-3-methylene-6-(1-
methylethenyl)cyclohexyl]-5-(1,1-dimethylheptyl)-, diacetate (9CI)

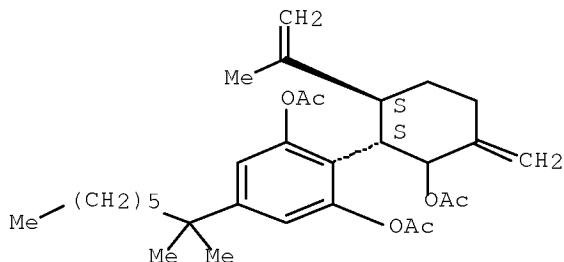
FS STEREOSEARCH

MF C31 H44 O6

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847949-42-2 REGISTRY

ED Entered STN: 05 Apr 2005

CN 1,3-Benzenediol, 5-(1,1-dimethylheptyl)-2-[(1S,6S)-2-hydroxy-3-methylene-6-
(1-methylethenyl)cyclohexyl]- (CA INDEX NAME)

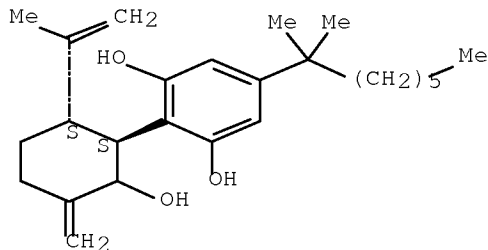
FS STEREOSEARCH

MF C25 H38 O3

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



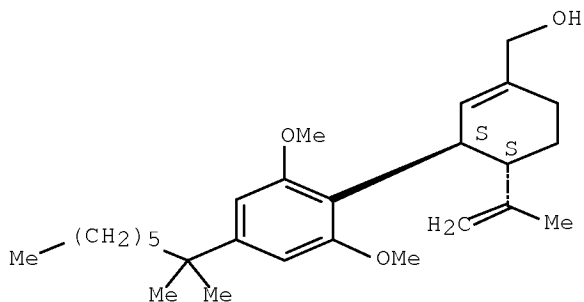
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-41-1 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN 1-Cyclohexene-1-methanol, 3-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C27 H42 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

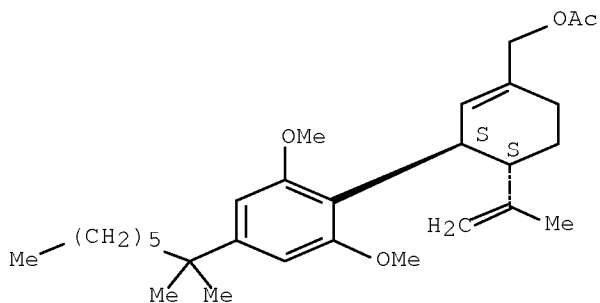


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-40-0 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN 1-Cyclohexene-1-methanol, 3-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-4-(1-methylethenyl)-, 1-acetate, (3S,4S)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Cyclohexene-1-methanol, 3-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-4-(1-methylethenyl)-, acetate, (3S,4S)- (9CI)
 FS STEREOSEARCH
 MF C29 H44 O4
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

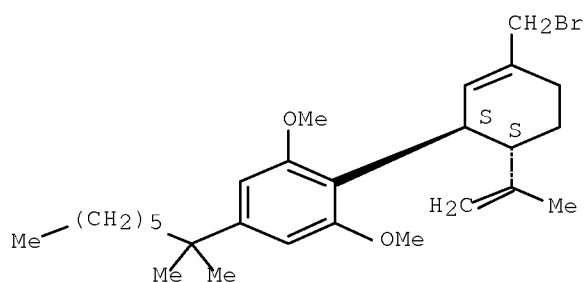


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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN ~~847949~~-39-7 REGISTRY
ED Entered STN: 05 Apr 2005
CN Benzene, 2-[(1S,6S)-3-(bromomethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]-
5-(1,1-dimethylheptyl)-1,3-dimethoxy- (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H41 Br O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

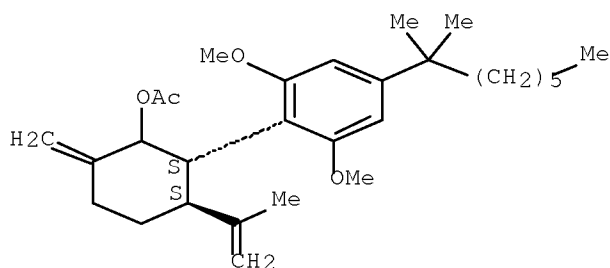


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN ~~847949~~-38-6 REGISTRY
ED Entered STN: 05 Apr 2005
CN Cyclohexanol, 2-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-6-methylene-3-(
1-methylethenyl)-, 1-acetate, (2S,3S)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexanol, 2-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-6-methylene-3-(
1-methylethenyl)-, acetate, (2S,3S)- (9CI)
FS STEREOSEARCH
MF C29 H44 O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

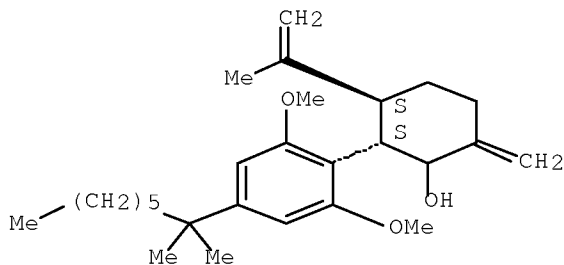


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L2 ANSWER 11 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-37-5 REGISTRY
ED Entered STN: 05 Apr 2005
CN Cyclohexanol, 2-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-6-methylene-3-(1-methylethenyl)-, (2S,3S)- (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H42 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

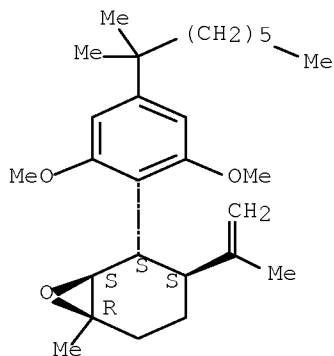


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L2 ANSWER 12 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-36-4 REGISTRY
ED Entered STN: 05 Apr 2005
CN 7-Oxabicyclo[4.1.0]heptane, 5-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-1-methyl-4-(1-methylethenyl)-, (1R,4S,5S,6S)- (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H42 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

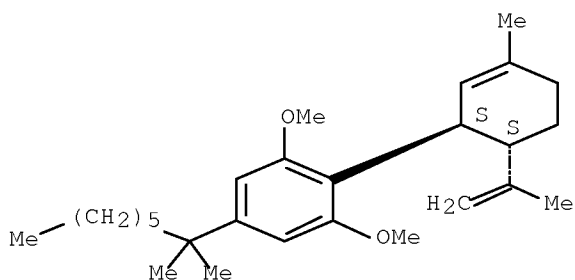


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-35-3 REGISTRY
ED Entered STN: 05 Apr 2005
CN Benzene, 5-(1,1-dimethylheptyl)-1,3-dimethoxy-2-[(1S,6S)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H42 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



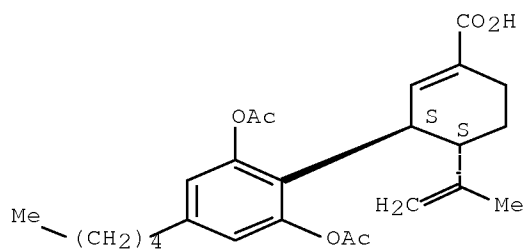
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 847949-34-2 REGISTRY
ED Entered STN: 05 Apr 2005
CN 1-Cyclohexene-1-carboxylic acid, 3-[2,6-bis(acetyloxy)-4-pentylphenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H32 O6

SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

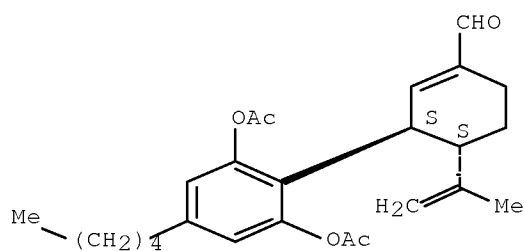


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L2 ANSWER 15 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-33-1 REGISTRY
ED Entered STN: 05 Apr 2005
CN 1-Cyclohexene-1-carboxaldehyde, 3-[2,6-bis(acetyloxy)-4-pentylphenyl]-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H32 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



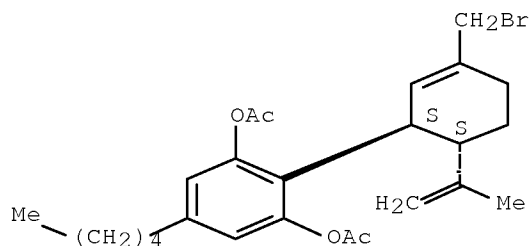
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 16 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-32-0 REGISTRY
ED Entered STN: 05 Apr 2005
CN 1,3-Benzenediol, 2-[(1S,6S)-3-(bromomethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-, 1,3-diacetate (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzenediol, 2-[(1S,6S)-3-(bromomethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-, diacetate (9CI)

FS STEREOSEARCH
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 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

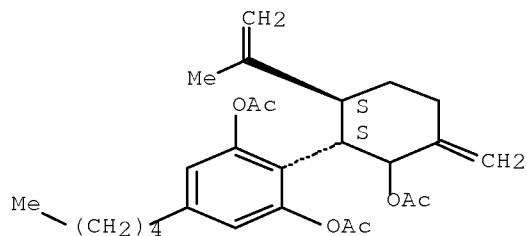


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L2 ANSWER 17 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-31-9 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN 1,3-Benzenediol, 2-[(1S,6S)-2-(acetyloxy)-3-methylene-6-(1-methylethenyl)cyclohexyl]-5-pentyl-, 1,3-diacetate (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3-Benzenediol, 2-[(1S,6S)-2-(acetyloxy)-3-methylene-6-(1-methylethenyl)cyclohexyl]-5-pentyl-, diacetate (9CI)
 FS STEREOSEARCH
 MF C27 H36 O6
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



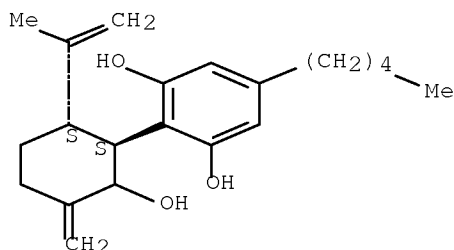
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 RN 847949-30-8 REGISTRY
 ED Entered STN: 05 Apr 2005

CN 1,3-Benzenediol, 2-[(1S,6S)-2-hydroxy-3-methylene-6-(1-methylethenyl)cyclohexyl]-5-pentyl- (CA INDEX NAME)
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 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

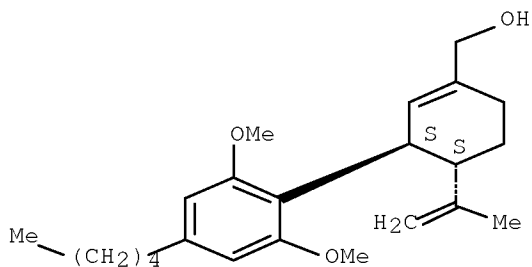


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-29-5 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN 1-Cyclohexene-1-methanol, 3-(2,6-dimethoxy-4-pentylphenyl)-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H34 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-28-4 REGISTRY
 ED Entered STN: 05 Apr 2005

CN 1-Cyclohexene-1-methanol, 3-(2,6-dimethoxy-4-pentylphenyl)-4-(1-methylethenyl)-, 1-acetate, (3S,4S)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Cyclohexene-1-methanol, 3-(2,6-dimethoxy-4-pentylphenyl)-4-(1-methylethenyl)-, acetate, (3S,4S)- (9CI)

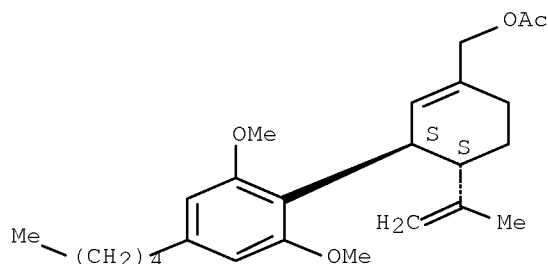
FS STEREOSEARCH

MF C25 H36 O4

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN

RN 847949-27-3 REGISTRY

ED Entered STN: 05 Apr 2005

CN Benzene, 2-[(1S,6S)-3-(bromomethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]-1,3-dimethoxy-5-pentyl- (CA INDEX NAME)

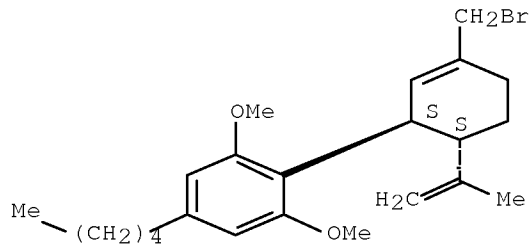
FS STEREOSEARCH

MF C23 H33 Br O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).



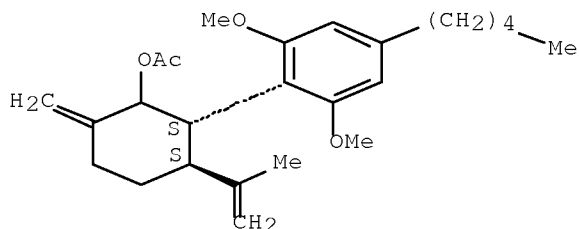
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-26-2 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN Cyclohexanol, 2-(2,6-dimethoxy-4-pentylphenyl)-6-methylene-3-(1-methylethenyl)-, 1-acetate, (2S,3S)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Cyclohexanol, 2-(2,6-dimethoxy-4-pentylphenyl)-6-methylene-3-(1-methylethenyl)-, acetate, (2S,3S)- (9CI)
 FS STEREOSEARCH
 MF C25 H36 O4
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

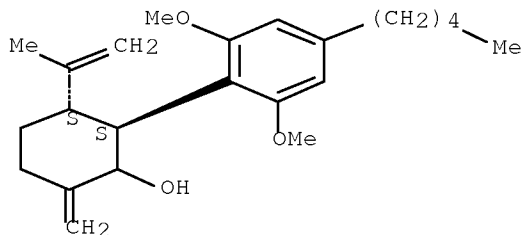


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L2 ANSWER 23 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 847949-25-1 REGISTRY
 ED Entered STN: 05 Apr 2005
 CN Cyclohexanol, 2-(2,6-dimethoxy-4-pentylphenyl)-6-methylene-3-(1-methylethenyl)-, (2S,3S)- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H34 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



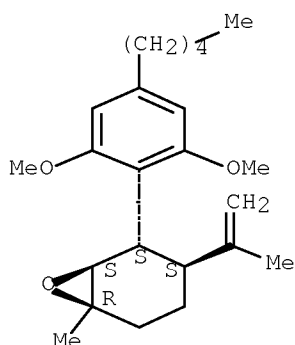
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 847949-24-0 REGISTRY
ED Entered STN: 05 Apr 2005
CN 7-Oxabicyclo[4.1.0]heptane, 5-(2,6-dimethoxy-4-pentylphenyl)-1-methyl-4-(1-methylethenyl)-, (1R,4S,5S,6S)- (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H34 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

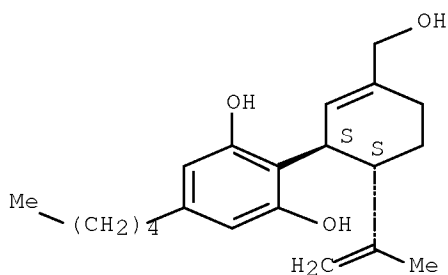


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 393588-67-5 REGISTRY
ED Entered STN: 19 Feb 2002
CN 1,3-Benzenediol, 2-[(1S,6S)-3-(hydroxymethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl- (CA INDEX NAME)
OTHER NAMES:
CN (+)-7-Hydroxycannabidiol
FS STEREOSEARCH
MF C21 H30 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

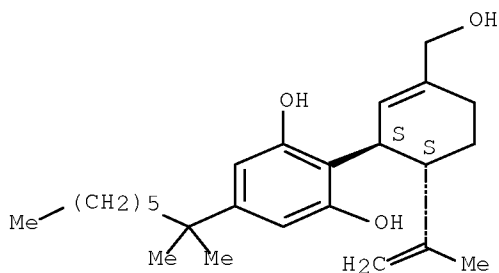


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5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 393588-66-4 REGISTRY
ED Entered STN: 19 Feb 2002
CN 1,3-Benzenediol, 5-(1,1-dimethylheptyl)-2-[(1S,6S)-3-(hydroxymethyl)-6-(1-methylethenyl)-2-cyclohexen-1-yl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H38 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (+).

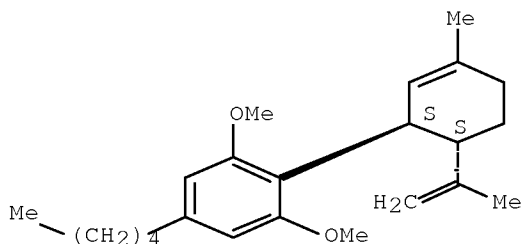


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5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 247227-98-1 REGISTRY
ED Entered STN: 17 Nov 1999
CN Benzene, 1,3-dimethoxy-2-[(1S,6S)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H34 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

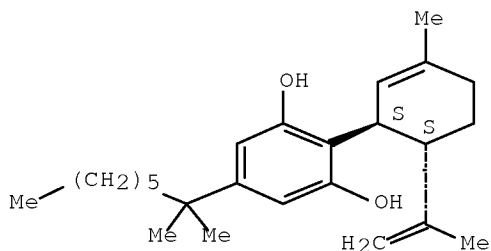


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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 100017-43-4 REGISTRY
ED Entered STN: 01 Feb 1986
CN 1,3-Benzenediol, 5-(1,1-dimethylheptyl)-2-[(1S,6S)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzenediol, 5-(1,1-dimethylheptyl)-2-[3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-, (1S-trans)-
FS STEREOSEARCH
MF C25 H38 O2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

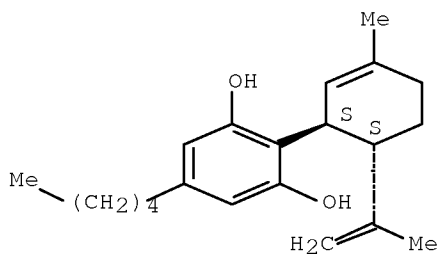


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8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 29 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 74219-23-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3-Benzenediol, 2-[(1S,6S)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzenediol, 2-[3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-, (1S-trans)-
OTHER NAMES:
CN (+)-Cannabidiol
CN (+)-CBD
FS STEREOSEARCH
MF C21 H30 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

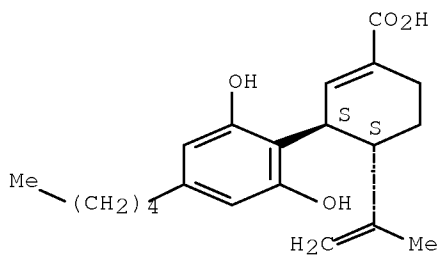


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13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 68295-94-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Cyclohexene-1-carboxylic acid, 3-(2,6-dihydroxy-4-pentylphenyl)-4-(1-methylethenyl)-, (3S,4S)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Cyclohexene-1-carboxylic acid, 3-(2,6-dihydroxy-4-pentylphenyl)-4-(1-methylethenyl)-, (3S-trans)-
FS STEREOSEARCH
MF C21 H28 O4
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



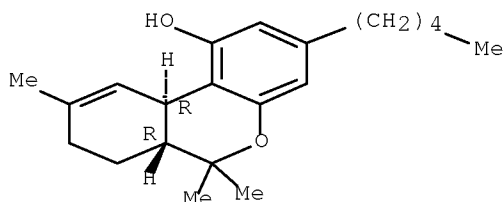
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 31 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1972-08-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 6H-Dibenzo[b,d]pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-, (6aR,10aR)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 6H-Dibenzo[b,d]pyran-1-ol, 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-, (6aR-trans)-
CN Cannabinol, Δ1-tetrahydro- (7CI)

CN Cannabinol, tetrahydro- (6CI)
 OTHER NAMES:
 CN (-)- Δ 1-Tetrahydrocannabinol
 CN (-)- Δ 9-Tetrahydrocannabinol
 CN (-)- Δ 9-trans-Tetrahydrocannabinol
 CN (-)-3,4-trans- Δ 1-Tetrahydrocannabinol
 CN (-)-trans- Δ 1-Tetrahydrocannabinol
 CN (-)-trans- Δ 9-Tetrahydrocannabinol
 CN (-)-trans- Δ 9-THC
 CN (1)- Δ 1-Tetrahydrocannabinol
 CN Δ 1-Tetrahydrocannabinol
 CN Δ 1-THC
 CN Δ 9-Tetrahydrocannabinol
 CN Δ 9-THC
 CN Δ 9-trans-Tetrahydrocannabinol
 CN Abbott 40566
 CN Dronabinol
 CN 1- Δ 1-trans-Tetrahydrocannabinol
 CN 1-trans- Δ 9-Tetrahydrocannabinol
 CN Marinol
 CN NSC 134454
 CN QCD 84924
 CN SP 104
 CN Tetrahydrocannabinol
 CN THC
 CN trans-(-)- Δ 9-Tetrahydrocannabinol
 CN trans- Δ 9-Tetrahydrocannabinol
 FS STEREOSEARCH
 DR 14146-29-3, 14146-43-1, 1363-19-5, 5957-27-7, 26108-45-2
 MF C21 H30 O2
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
 BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST,
 CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB,
 IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*,
 MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS*, SPECINFO,
 SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: WHO

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5278 REFERENCES IN FILE CA (1907 TO DATE)

154 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

5283 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FILE CAPLUS
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST 64.03 67.09

FILE 'CAPLUS' ENTERED AT 14:11:20 ON 12 MAY 2009
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FILE COVERS 1907 - 12 May 2009 VOL 150 ISS 20
FILE LAST UPDATED: 10 May 2009 (20090510/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate

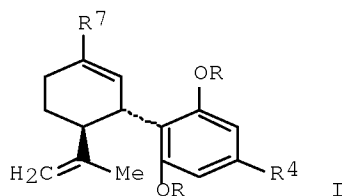
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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:238931 CAPLUS Full-text
DOCUMENT NUMBER: 142:316978
TITLE: Preparation of (+)-cannabidiol derivatives for use in pharmaceutical compositions as immune system modulators, analgesics and anti-inflammatory agents
INVENTOR(S): Mechoulam, Raphael; Fride, Ester
PATENT ASSIGNEE(S): Yissum Research Development Company of the Hebrew University of Jerusalem, Israel; Ariel Ltd.
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005023741	A2	20050317	WO 2004-IL810	20040908
WO 2005023741	A3	20050421		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20070082954 A1 20070412 US 2006-570737 20060928 <--
 PRIORITY APPLN. INFO.: IL 2003-157849 A 20030910
 WO 2004-IL810 W 20040908
 OTHER SOURCE(S): CASREACT 142:316978; MARPAT 142:316978
 GI



AB (+)-Cannabidiol derivs., such as I [R = H; R4 = (CH2)4Me, CMe2(CH2)5Me; R7 = CH2OH, CO2H], were prepared for therapeutic use as agents which have selective activity in the peripheral and not in the central nervous system. These (+)-cannabidiols are claimed for use as analgesics, immunomodulators and anti-inflammatory agents useful for the treatment of diseases and conditions, such as inflammatory bowel disease, diarrhea and inflammatory pain. Thus, (+)-cannabidiol derivative I [R = H, R4 = (CH2)4Me, R7 = CH2OH] was prepared via a multistep synthesis starting from (+)-cannabidiol I [R = H, R4 = (CH2)4Me, R7 = Me]. The prepared (+)-cannabidiol derivs. were screened for a variety of pharmacol. activities, such as CB1 and CB2 type cannabinoid receptor binding, analgesic activity and inhibition of intestinal motility.

IC ICM C07C039-00

CC 30-20 (Terpenes and Terpenoids)

Section cross-reference(s): 1, 63

ST cannabidiol deriv prepn analgesic antiinflammatory agent; immunomodulator
 cannabidiol deriv prepn; inflammation treatment cannabidiol deriv prepn;
 immune disorder treatment cannabidiol deriv prepn; pain inflammatory
 treatment cannabidiol deriv prepn; inflammatory bowel disease treatment
 cannabidiol deriv prepn; diarrhea treatment cannabidiol deriv prepn;
 peripheral nervous system disorder treatment cannabidiol deriv prepn;
 gastrointestinal tract modulator cannabidiol deriv prepn; CB1 CB2
 cannabinol receptor binding cannabidiol deriv prepn

IT Peripheral nervous system

(disorders, treatment; preparation of (+)-cannabidiol derivs. for use in
 pharmaceutical compns. as immune system modulators, analgesics and
 anti-inflammatory agents)

IT Intestine, disease

Pain

(inflammatory, treatment; preparation of (+)-cannabidiol derivs. for use in
 pharmaceutical compns. as immune system modulators, analgesics and

anti-inflammatory agents)

IT Analgesics
Anti-inflammatory agents
Immunomodulators
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT Diarrhea
Digestive tract, disease
Immune disease
Inflammation
(treatment; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT Cannabinoid receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type CB1; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT Cannabinoid receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type CB2; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 1972-08-3, Δ9-THC
RL: PAC (Pharmacological activity); BIOL (Biological study)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 74219-29-7, (+)-Cannabidiol 100017-43-4
RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 68295-94-3P 393588-66-4P 393588-67-5P 847949-47-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 247227-98-1P 847949-24-0P 847949-25-1P 847949-26-2P 847949-27-3P
847949-28-4P 847949-29-5P 847949-30-8P 847949-31-9P 847949-32-0P
847949-33-1P 847949-34-2P 847949-35-3P 847949-36-4P 847949-37-5P
847949-38-6P 847949-39-7P 847949-40-0P 847949-41-1P 847949-42-2P
847949-43-3P 847949-44-4P 847949-45-5P 847949-46-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

=> FIL MARPAT

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.88	70.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.82	-0.82

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FILE CONTENT: 1961-PRESENT VOL 150 ISS 20 (20090511/ED)

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MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20090088416 02 APR 2009
DE 202008013315 26 MAR 2009
EP 2042172 01 APR 2009
JP 2009065074 26 MAR 2009
WO 2009042853 02 APR 2009
GB 2452157 25 FEB 2009
FR 2921369 27 MAR 2009
RU 2350621 27 MAR 2009
CA 2639658 17 MAR 2009

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ANSWER 1 MARPAT COPYRIGHT 2009 ACS on STN

AN 142:316978 MARPAT Full-text

TI Preparation of (+)-cannabidiol derivatives for use in pharmaceutical compositions as immune system modulators, analgesics and anti-inflammatory agents

IN Mechoulam, Raphael; Fride, Ester

PA Yissum Research Development Company of the Hebrew University of Jerusalem, Israel; Ariel Ltd.

SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM C07C039-00

CC 30-20 (Terpenes and Terpenoids)
Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005023741	A2	20050317	WO 2004-IL810	20040908
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

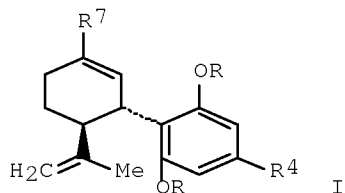
US 20070082954 A1 20070412 US 2006-570737 20060928

PRAI IL 2003-157849 20030910

WO 2004-IL810 20040908

OS CASREACT 142:316978

GI



AB (+)-Cannabidiol derivs., such as I [R = H; R4 = (CH2)4Me, CMe2(CH2)5Me; R7 = CH2OH, CO2H], were prepared for therapeutic use as agents which have selective activity in the peripheral and not in the central nervous system. These (+)-cannabidiols are claimed for use as analgesics, immunomodulators and anti-inflammatory agents useful for the treatment of diseases and conditions, such as inflammatory bowel disease, diarrhea and inflammatory pain. Thus, (+)-cannabidiol derivative I [R = H, R4 = (CH2)4Me, R7 = CH2OH] was prepared via a multistep synthesis starting from (+)-cannabidiol I [R = H, R4 = (CH2)4Me, R7 = Me]. The prepared (+)-cannabidiol derivs. were screened for a variety of pharmacol. activities, such as CB1 and CB2 type cannabinoid receptor binding, analgesic activity and inhibition of intestinal motility.

ST cannabidiol deriv prepn analgesic antiinflammatory agent; immunomodulator
cannabidiol deriv prepn; inflammation treatment cannabidiol deriv prepn;
immune disorder treatment cannabidiol deriv prepn; pain inflammatory
treatment cannabidiol deriv prepn; inflammatory bowel disease treatment
cannabidiol deriv prepn; diarrhea treatment cannabidiol deriv prepn;
peripheral nervous system disorder treatment cannabidiol deriv prepn;
gastrointestinal tract modulator cannabidiol deriv prepn; CB1 CB2
cannabinol receptor binding cannabidiol deriv prepn

IT Peripheral nervous system
(disorders, treatment; preparation of (+)-cannabidiol derivs. for use in
pharmaceutical compns. as immune system modulators, analgesics and
anti-inflammatory agents)

IT Intestine, disease
Pain
(inflammatory, treatment; preparation of (+)-cannabidiol derivs. for use in
pharmaceutical compns. as immune system modulators, analgesics and
anti-inflammatory agents)

IT Analgesics
Anti-inflammatory agents
Immunomodulators
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as
immune system modulators, analgesics and anti-inflammatory agents)

IT Diarrhea
Digestive tract, disease
Immune disease

Inflammation

(treatment; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT Cannabinoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type CB1; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT Cannabinoid receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type CB2; preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 1972-08-3, Δ9-THC

RL: PAC (Pharmacological activity); BIOL (Biological study)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 74219-29-7, (+)-Cannabidiol 100017-43-4

RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

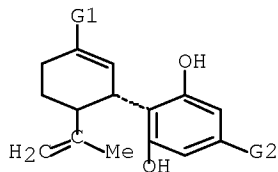
IT 68295-94-3P 393588-66-4P 393588-67-5P 847949-47-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

IT 247227-98-1P 847949-24-0P 847949-25-1P 847949-26-2P 847949-27-3P 847949-28-4P 847949-29-5P 847949-30-8P 847949-31-9P 847949-32-0P 847949-33-1P 847949-34-2P 847949-35-3P 847949-36-4P 847949-37-5P 847949-38-6P 847949-39-7P 847949-40-0P 847949-41-1P 847949-42-2P 847949-43-3P 847949-44-4P 847949-45-5P 847949-46-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of (+)-cannabidiol derivs. for use in pharmaceutical compns. as immune system modulators, analgesics and anti-inflammatory agents)

MSTR 1



G1 = Me / CO2H / CH2OH

G2 = alkyl <containing 5-12 C> /
alkoxy <containing 5-9 C> (opt. substd. by Ph) / 20 /
(Specifically claimed: pentyl / 23)

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:12:27 ON 12 MAY 2009